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OPERATION, CARE, AND REPAIR OF FARM MACHINERY

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Compiled by

A. T. Holman

Extension Agriculture Engineer

UNITED STATES DEPARTMENT OF AGRICULTURE

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Farmers' Bulletin -

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| No. 946 | Care and repair of farm implements: No. 3,
Plows and harrows. 1922. |
| No. 1045 | Laying out fields for tractor plowing. 1936. |
| No. 1315 | Cleaning milking machines. 1939. |
| No. 1404 | Pumping from wells for irrigation. 1934.
(For northern Great Plains and intermountain regions.) |
| No. 1525 | Effective haying equipment and practices. 1931. |
| No. 1526 | Clearing land of brush and stumps. 1936. |
| No. 1542 | Cleaning grain on farms and in country elevators. 1927. |
| No. 1577 | Harvesting grain sorghums. 1928. |
| No. 1589 | The husker-shredder on eastern Corn Belt farms. 1928. |
| No. 1608 | The operation and care of combined harvester threshers. 1929. |
| No. 1615 | Hay stackers and their use. 1929. |
| No. 1662 | Husker-shredders in corn-borer control. 1931. |
| No. 1678 | Safe use and storage of gasoline and kerosene on the farm. 1932. |
| No. 1690 | Plowing with moldboard plows. 1932. |
| No. 1729 | Machinery for dusting cotton. 1934. |
| No. 1754 | Care and repair of mowers and binders. 1936. |
| No. 1761 | Harvesting with combines. 1936. |
| No. 1801 | Making lime on the farm. 1938. |
| No. 1816 | Mechanizing the corn harvest. 1938. |
| No. 1818 | Mechanical milk cooling on farms. 1938. |
| No. 1857 | Small irrigation pumping plants. 1940. |
| No. 1858 | Electric motors on the farm. 1940. |

Leaflet -

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| No. 97 | Cross-blocking sugar beets by machine. 1933. |
| No. 107 | The barrel seed scarifier. 1934. |

Miscellaneous Publication -

- | | |
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| No. 38 | Research in mechanical farm equipment. 1928. |
| No. 142 | Construction of sled-type cornstalk shavers. 1932. |
| No. 157 | Power and machinery in agriculture. 1933. |
| No. 212 | A low-cutting sled corn cutter. 1934. |
| No. 492 | War and farm work. 1942. |

FSA Publication -

No. 106 Sharing farm equipment. 1942.

Technical Bulletin -

No. 70 The combined harvester-thresher in the Great Plains. 1928.
 No. 497 Utilization and cost of power on Mississippi and
 Arkansas Delta plantations. 1935.
 No. 669 Fertilizer placement for potatoes. 1939.

Circular -

No. 132 Fighting the corn borer with machinery in the two-
 generation area. 1930.
 No. 264 Mechanical application of fertilizers to cotton
 in South Carolina, 1931, 1933.
 No. 287 Burning for the control of aphids on alfalfa in
 the Antelope Valley, California. 1933.
 No. 292 Artificial drying of rice on the farm. 1933.
 No. 316 Agronomic evaluation tests on mechanical blocking
 and cross cultivation of sugar beets. 1934.
 No. 321 Use of farm machinery for corn-borer control in
 the one-generation area. 1934.
 No. 345 Barrel and disk seed scarifier. 1935.
 No. 361 Removing smut balls from seed wheat. 1935.
 No. 399 Machine placement of fertilizers for snap beans in
 Florida. 1936.
 No. 415 Equipment for applying dust fungicides to seed
 grain. 1936.
 No. 443 Artificial drying of forage crops. 1937.
 No. 470 Performance characteristics of 5- and 6-foot com-
 bines. 1938.
 No. 540 Cotton-tillage studies on red bay sandy loam. 1940.
 No. 581 Harvesting pyrethrum. 1941.
 No. 592 Machinery for growing corn. 1940.
 No. 598 Experiments in the use of vapor-spray equipment. 1940.

Yearbook Separate -

No. 1625 Tillage machinery. 1939.

Mimeographed Material:

ACE-21 Legume coverage studies in Alabama. 1940.
 ACE-138 Care of rubber tires on the farm. 1942.
 ACE-143-150 Repair of farm machinery. 1942.
 ACE-157 Tractors and night work. 1942.
 BAE: Flier # 4: Farm machinery goes to war.

 F.M.-18 Machine and hand methods in crop production. 1940.
 F.M.-29 Rubber-tired equipment of principal farm machines. 1942.
 F.M.-30 Farm tractors: Type, size, age, and Life. 1942.
 F.M.-32 Fuel consumed and work performed by farm tractors. 1942.

Supplement to War Letter for Agriculture:

No. AND-10-42 Stretch the farm rubber. 1942.

ALABAMA

School of Agriculture, Alabama Polytechnic Institute, Auburn

Extension:

Leaflet (mimeographed) -

Unnumbered Lime, fertilizer and seed distributor. F. A. Kummer and
J. B. Wilson. 1941

Plan No. 314-2 Homemade peanut picker. 1942.

ARIZONA

College of Agriculture, University of Arizona, Tucson

Extension:

Folder W-2 This is the time to repair. 1942.

Mats, three, on farm machinery repair.

Experiment Station:

Bulletin -

No. 174 Efficiency in the use of farm machinery in Arizona.
Ned O. Thompson. 1941.

ARKANSAS

College of Agriculture, University of Arkansas, Fayetteville

Extension:

Circular -

No. 182 Terracing farm land, Rev., 1935.
No. 254 Poultry housing and equipment, Rev., 1937.
No. 399 Farm electrification. 1937.
No. 416 Water systems for the farm home. 1938.

Leaflet -

No. 16 Care and repair of farm machinery. Save time and money. 1941.
No. 22 Machine repair check list for farm and home equipment. 1942.
No. 26 Care and repair of household equipment.

Plan Series -

No. 2 Home-made peanut picker.

Experiment Station:

Bulletin -

No. 355 Storage and transportation of Arkansas rice. 1938.
No. 381 Apparatus for measurements of lengths of cotton fiber. 1939.
No. 395 Farm storage and marketing of rough rice in Arkansas. 1940.

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CALIFORNIA

College of Agriculture, University of California, Berkeley

Extension:

Plans

- No. B-207 Portable cup elevator.
 No. B-212 Portable chain drag elevator.

Agricultural Engineering Information Series (mimeographed)

- No. 4 Attachments for disks to control depth of tillage.
 No. 6 Attachments for mowers to cut vetch.
 No. 9 Feed grinding and feed mills.
 No. 11 Handling feed molasses on the farm.
 No. 15 Data on spray guns, spray hose, and pipe lines.
 No. 16 Butane fuel for farm use.
 No. 17 Flax harvesting investigation. 1939.

Experiment Station:

Bulletin -

- No. 362 Dust and the tractor engine. 1923.
 No. 476 Poultry houses and equipment. 1929.
 No. 477 Improved methods of harvesting grain sorghum. 1929.
 No. 499 Air cleaners for motor vehicles. 1930.
 No. 541 Harvesting and drying rough rice in California. 1932.
 No. 577 Spark arresters for motorized equipment. 1934.
 No. 580 Thresher and other mechanical injury to seed beans
 of the lima type. 1934.
 No. 596 Sulphuric acid for the control of weeds. 1935.
 No. 618 Electric pig brooders. 1937.
 No. 634 A new selective spray for control of certain weeds. 1940.
 No. 643 Operation of orchard heaters. 1940.
 No. 650 Electric sterilizing equipment for farm dairies. 1941.
 No. 666 Spray equipment for pest control. 1942.

Circular -

- No. 111 Protection of orchards against frost. Rev., 1921.

COLORADO

Colorado Agricultural and Mechanical College, Fort Collins

Experiment Station:

Bulletin -

- No. 443 Home-made farm equipment. William P. Kintzley. April 1938.

CONNECTICUT

College of Agriculture, University of Connecticut, Storrs

Extension:

Circular -

Farm labor and machinery in the present emergency.
Harold E. Pinches and J. S. Owens. 1941.

Wartime Living Folder (and supplement) -

No. 3 Rates for farm machinery custom work.
Harold E. Pinches and Paul L. Putnam. June 1942.

GEORGIA

College of Agriculture, University of Georgia, Athens

Extension:

Bulletin -

No. 394 Terracing farm lands in Georgia. Rev., 1939.
No. 434 Utilization and cost of farm power in Georgia. September 1933.
No. 483 Electric water systems for the farm. 1941.
No. 475 Planning for electricity on Georgia farms. 1940.
No. 467 A portable motor for Georgia farms. 1939.

Circulars -

No. 289 Watering the farm garden. 1941.

Slides -

Power and machinery 2-# by 2-inch slides in color.

IDAH0

College of Agriculture, University of Idaho, Moscow

Extension:

Bulletin -

No. 85 Harvesting field peas with the combine. 1932.

Circular -

No. 41 Chisel attachment for the moldboard plow. 1932.
No. 43 Farm water measurement. 1940.
No. 48 Farm irrigation ditches, tools, and structures. 1934.
No. 61 Conserving irrigation water. 1940.
No. 65 Farm building and equipment plans. 1939.

Defense Circular -

No. 4 Protect farm machinery. January 1942.
No. 14 Farm machinery repair. January 1942.
No. 33 If you have a blackout. August 1942.

Experiment Station:

Bulletin -

- No. 175 Bulk handling grain from the hillside type combine. 1930.
- No. 202 Prolonging plowshare service. April 1940.
- No. 203 The bin method of mixing feed. May 1934.
- No. 234 Mechanized dusting equipment for pea-weevil control.
February 1940.

Circular -

- No. 66 Irrigation pumping plants. September 1931.
- No. 70 V-belt drives for farm motors and equipment.
December 1932.
- No. 86 Bulk handling of potatoes. September 1942.

Leaflet (mimeographed) -

- A.E.No. 8 Internal combustion engine fuels and lubricants.
- No. 10 Power transmission.
- No. 27 Tests and specifications for fuels and lubricants.
- No. 123 Repairing farm machinery.
- No. 124 Repairing and adjusting a mower.
- S-4 Farm shop and tools.
- S-5 Forge work.
- S-9 Bearings.

Mimeographed Material -

- MM-94 Connecting rods and bearings.
Farm machinery repair service.

Leaflet (mimeographed) -

- No. 19 Emergency grain storage. August 1942.
- No. 74 Trench silo. August 1942.

ILLINOIS

College of Agriculture, University of Illinois, Urbana

Extension and Experiment Station -

Circular -

- No. 309 Farm machinery, its purchase, care, operation, and
adjustment. R. I. Shawl. Rev., January 1935.
- No. 499 Tractor repair and maintenance. R. I. Shawl. November 1939.
- No. 450 Better plowing. T. Cleaver and R. I. Shawl.
Rev., December 1938.
- No. 529 Soybeans, harvesting, storing. H. P. Bateman,
D. C. Carter, and R. I. Shawl. June 1942.

Mimeographed Material - Detailed farm machinery repair check list. 1942.

Agricultural Engineering -

- No. 173 Filling Illinois silos. R. H. Reed. June 1938.
- No. 230 Harvesting and storing of chopped hay. R. H. Reed. May 1934.
- No. 252 Electric silo filling. R. R. Parks. January 1940.
- No. 295 How to keep tractor power up and fuel costs down as shown by 1940 Illinois farm tractor tests. H. P. Bateman and G. M. Petersen. January 1941.
- No. 308 The selection and operation of electric motors for the farm. C. W. Veach. July 1941.

Improving efficiency of farm labor to meet wartime demands. E. W. Lehmann and H. P. Bateman. Reprint from Agricultural Engineering, vol. 23, No. 9, pp. 277-280. September 1940.

INDIANA

Purdue University, La Fayette

Extension:

Bulletin -

- No. 266 Electricity serves the home. 1941.
- Farm machinery...the farmer's weapon (farm-machinery check list). 1942.

- No. 227 Binder knotter troubles. April 1942.

Circular mimeograph -

- Sweep rakes. R. C. Shipman 1941
- Straightening bale ties. R. C. Shipman. 1942.

Experiment Station:

Bulletin -

- No. 362 Mechanical corn pickers in Indiana. 1932.
- No. 436 Economic study of harvesting with the small combine in Indiana. 1939.
- No. 437 Cost of using farm machinery in Indiana. 1939.

Circular -

- No. 217 The Purdue plow trash shield. 1936.

IOWA

Iowa State College of Agriculture and Mechanic Arts, Ames

Extension:

Bulletin -

- No. 24 Rope and its uses. A. A. Burgher. Rev. 1932.
- No. P-9 Rubber-tiring farm machines. D. K. Struthers and A. H. Bennett. April 1940.

IOWA - Continued

Extension:

Bulletin -

- No. P-13 Electric motors for the farm. (single phase). 1940.
- No. P-44 Weed control in growing corn. C. K. Shedd,
E. V. Collins and J. B. Davidson 1942.
- No. P-37 Life, service, and cost of service of farm machines on
400 Iowa farms. J. B Davidson and Milton Henderson. 1942.

Pamphlet -

- No. 28 Reducing labor in seedbed preparation for soybeans.

Experiment Station:

Bulletin -

- No. 382 Life, service, and cost of service of pneumatic
tractor tires. E. G. McKibben and J. B. Davidson.
September 1939.

Research No. 258 Cost and utilization of power and labor on Iowa
farms. Wylie D. Goodsell. June 1939.

Reprint -

- Agricultural engineering, vol.20, No. 10, pp. 387-388, illus.
Oct. 1939.
- No. 675 Why not left-handed disk jointers? E. V. Collins
and C. K. Shedd. 1940.

Film strip -

Rubber tiring farm machines.

Slides -

The farm tractor (operation and fuel economy).
25 slides.
Feed grinding. 30 slides.
Farm machinery adjustment. 25 slides.

KANSAS

Kansas State College of Agriculture and Applied Science, Manhattan

Extension:

Bulletin -

- No. 63 Wiring the farmstead. F. O. Fenton and H. E. Stover.
Rev., May 1938.
- No. 69 Electric motors for the farm. Frank J. Zink.
May 1931.
- No. 87 Feed grinding with small electric motors. J. W. Martin
and June Roberts. September 1941.

Circular -

- No. 21 Tractor overheating - Causes and Remedies.
John M. Ferguson and E. L. Barger. October 1939.
- No. 22 Tractor lighting equipment, and suggestions on construction.
John M. Ferguson and E. L. Barger. February 1940.
- No. 37 Lister adjustment for sorghums. John M. Ferguson,
L. L. Compton, and E. L. Barger. April 1941.
- No. 43 Getting the most from your tractor. John M. Ferguson
and J. W. Martin. April 1942.
- M. No. 44 Planter adjustment for soybeans. John M. Ferguson,
E. A. Cleavinger, and J. W. Martin. May 1942.
- No. 158 Farm garden irrigation. Hal F. Eier and L. H.
Schoenleber.

Leaflet - Give your tires a chance. 1942.

Mimeograph - Tractor fuels. 1942.

Engineering Experiment Station:

Bulletin -

- No. 22 The farm shop. E. C. Graham and C. K. Shedd.
September 1929.
- No. 27 Farm grinding of grain and forage. F. C. Fenton
and C. A. Logan. May 1931.
- No. 30 Farm lighting systems. C. A. Logan. June 1932.
- No. 35 Durability tests of belt lacings and fasteners.
W. W. Carlson and G. A. Sellers. August 1936.
- No. 36 Buildings and equipment for vocational agriculture
instruction. M. R. Wilson. March 1938.
- No. 37 Tractor fuels. E. L. Barger. May 1939.

KENTUCKY

College of Agriculture and Home Economics, University of Kentucky, Lexington

Extension:

Circular -

- No. 375 Mowing machines, repair and adjustment. 1942.

Leaflet -

- No. A-22 How to harvest hemp seed. July 1942.

Mimeograph -

- No. A-64 Machinery for planting hemp for the production
of seed. 1942.
Plan of work on repair of farm and household
machinery. 1942.
Farm machinery check sheets. 1942.

LOUISIANA

Louisiana State University and Agricultural and Mechanical
Collège, University Station, Baton Rouge

Circular -

No. 250 Home-made peanut picker. 1942.

Poster: Keep farm equipment in good looking order.

MAINE

College of Agriculture, University of Maine, Orono

State Extension Publications:

Bulletin -

No. 291 Repairing and adjusting mowing machines.
E. C. Meyer and M. G. Huber. June 1941.

Circular (mimeographed) -

Preparing the potato planter for the planting season.
Check sheets for principal kinds of farm machines. 1942.

Experiment Station:

Bulletin -

No. 365 The effect of handling methods on quality of Maine
potatoes. William E. Schrumph. April 1933.

MARYLAND

College of Agriculture, University of Maryland, College Park

Extension:

Mimeograph -

General repair suggestions and check sheet outline. Detailed
suggestions on mower repairs.

Experiment Station:

Bulletin -

No. 362 Crop and soil management practices. - The upkeep of
farm implements and machinery. PP 365-366. R. E.
Sellman. April 1934. (Out of print. May be on file
in libraries.)

MASSACHUSETTS

Massachusetts State College, Amherst

Extension:

Program Hints V. 12 -

- No. 7 Transportation conservation - the truth about rubber.
L. V. Loy. 1942.

MICHIGAN

State College of Agriculture and Applied Science, East Lansing

Extension:

Bulletin -

- No. 134 Common binder head and knotter head troubles.
H. H. Musselman and A. J. Bell. December 1933.
No. 143 Care of sewing machines. A. J. Bell. January 1935.
No. 153 Care and repair of the mowing machine A. J. Bell.
December 1935.

Folder -

- No. 9 Winter time is repair time. December 1941.
Inspection and repairs - (check) sheet.

Circular (mimeographed) -

- Plow adjustments. E. C. Sauvé.
High pressure spray rigs for fighting farm fires.
George Amundson.

Experiment Station:

Circular Bulletin -

- No. 183 Efficient use of farm production equipment.
H. H. Musselman. April 1942.

Reprints from Station Quarterly Bulletin:

- Muslin tube fruit juice filter.
Rubber tired wagon.
Small combine thresher.

Reprint -

Traction tests of single pneumatic tires.

Department Series Bulletin:

- No. 26-4612 Conversion tractors. E. C. Sauvé. 1936.

MINNESOTA

Department of Agriculture, University of Minnesota, University Farm, St. Paul

Extension:

Bulletin -

- No. 212 Clearing land with the bulldozer. A. J. Schwantes and M. J. Thompson. May 1940.
- No. 213 Combine harvesting in Minnesota. A. J. Schwantes. June 1940.
- No. 221 Electric motors for the farm. Norton Ives and Andrew Hustrulid. June 1941.
- No. 233 Painting on the Farm. C. H. Christopherson and Norton Ives. April 1942.

Mimeograph -

Outline, description and calendar of county farm machinery repair schools. Farm machinery repair program for Minnesota. Norton Ives. Progress to June 1942.

Pamphlet -

- No. 81 Potato vine lifter. A. E. Thompson. June 1941.
- No. 89 Buy repairs now. January 1942.
- No. 96 Costs of tractor and machine use. April 1942.

Experiment Station:

Bulletin -

- No. 290 Filling silos with the field ensilage harvester. A. J. Schwantes and J. B. Torrance. Rev., July 1937.

Reprint:

- No. 122 Tractor costs and rate of performance, G. A. Pond and A. J. Schwantes, Division of Agriculture Economics. April 1941. Mimeographed.

MISSISSIPPI

Mississippi State College, State College

Extension:

Bulletin -

- No. 24 Wartime truck and tractor tips. J. T. Copeland. 1942.

Experiment Station:

Bulletin -

- No. 215 Sweetpotato vine silage, State College. 1940.
- No. 244 Cotton cultivation, State College. 1941.
- No. 295 Farm power in the Yazoo-Mississippi Delta. 1931.
- No. 298 Making Cotton Cheaper, can present production costs be reduced? 1932.

MISSISSIPPI-Continued

Bulletin -

- No. 312 Compilation of experimental and other data on corn planting and cultivation. 1936.
A compilation of experimental data.
- No. 323 Cotton: Land preparation, planting, and cultivation. 1938.
- No. 337 Farm mechanics. 1939.
- No. 352 Factors for success on starch sweetpotato and general farms in Jones County, Mississippi. 1939. (1940)

MISSOURI

College of Agriculture, University of Missouri, Columbia

Extension:

Circular -

- No. 217 Adapting horse-drawn mowers to tractor power.
L. E. Hightower. 1941.
- No. 252 Plow adjustment and operation. Mack M. Jones and
L. E. Hightower. May 1942.
- No. 352 Home grinding limestone. O. T. Coleman. September 1936.
- No. 449 Mower repair and adjustment. February 1942.
- No. 460 Converting a slip scraper into a one-man tractor
scraper. J. C. Wooley. 1942.

Mimeograph: Suggested Plan for Farm Machinery Program. 1942.

Experiment Station:

Bulletin -

- No. 303 Silo filling methods and costs. M. M. Jones and
D. D. Smith. May 1931. (Out of print, but in
libraries.)
- No. 426 Combine harvesters in Missouri. M. M. Jones and
R. P. Beasley. April 1941.
- Res. No. 197 Power, labor, and machine costs in crop production, Linn
County, Missouri. 1930. D. D. Smith and M. M. Jones.
June 1938. (Out of print but in libraries.)

Circular-

- No. 232 Plow adjustment and operation. M. M. Jones and
L. E. Hightower. May 1942.

Charts:

- No. 1-15 Repair and adjustment of mowers, binders, etc.
- No. 16-26 Plow adjustments and hitches.
- No. 27-41 Tractor engine tune-up and care.

Motion picture: Ignition systems on internal combustion engines.

NEBRASKA

College of Agriculture, University of Nebraska, Lincoln

Extension:

Circular -

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| No. | 700 | Use of rope on the farm. Virgil Overhold. Rev., 1940. |
| No. | 702 | Grinding the farm tools. L. M. Roehl. 1938. |
| No. | 734 | Soldering. R. M. Loper and E. A. Olson. Rev., 1941. |
| No. | 736 | A rope making machine. E. A. Olson. 1939. |
| No. | 741 | Know your combine. Carlton L. Zink and Lloyd W. Hurlbut. 1942. |
| No. | 742 | A home-made farm forge. R. M. Loper and E. A. Olson. 1941. |
| No. | 743 | Simple forge hints for farm use. W. J. Runnalls. 1935. |
| No. | 744 | Suggested manual training exercises in forge work and carpentry. Rev., 1941. |
| No. | 745 | Fitting the farm saws. L. M. Roehl. 1935. |
| No. | 747 | Farm machinery chart supplement. E. A. Olson, Carlton L. Zink, Philip V. Eshelman, and L. W. Hurlbut. 1942. |
- (To be used in conjunction with the set of farm machinery and adjustment charts. There are 29 charts in each set showing illustrations of adjustment of mowers and plows, care and operation of air cleaners, and tractors, their care, repair and adjustment. Each set of charts sells for \$5.40 prepaid. The supplement is of little value without the charts.)
- Unnumbered Hints on the care and operation of the farm tractor. 1942.

Experiment Station:

Bulletin -

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| No. | 302 | Processing feeds on Nebraska farms. E. E. Brackett and E. B. Lewis. 1936. |
| No. | 324 | Cost of tractor power on Nebraska farms. Frank Miller, W. L. Ruden, C. W. Smith. 1939. |
| No. | 333 | The Nebraska tractor tests, 1920-1941 includes comments on drawbar tests on rubber tired tractors. 1942. |
| No. | 334 | Oil filters for internal combustion engines. C. W. Smith, T. B. Johnson, and E. L. Munter. 1941. |

Circular -

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| No. | 64 | Adjusting corn planters and listers for sorghum. L. W. Hurlbut. 1940. |
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NEW HAMPSHIRE

University of New Hampshire, Durham

Extension:

Circular -

- No. 235 Potato vine lifters. George M. Foulkrod and Paul T. Blood. January 1941.
- No. 231 Streamlining your old sewing machine. 1940.

Mimeograph -

- No. 10602 General rules for machinery repair. G. M. Foulkrod.
- No. 10603 Tune up your mower now. G. M. Foulkrod.
- No. 10470 Tune up your sewing machine. G. M. Foulkrod.

Experiment Station:

Circular -

- No. 43 Power for the grindstone. H. N. Colby and W. T. Ackerman. February 1935.

NEW JERSEY

State College of Agriculture and Mechanic Arts
State University of New Jersey, New Brunswick

Extension:

Bulletin -

- No. 126 Belts and pulleys. W. C. Krueger. 1934.
- No. 144 Soldering. W. C. Krueger. 1934.

Reprint from New Jersey Agriculture:

- The Farm Shop. E. R. Gross. 1924.
- Engineering news notes. W. C. Krueger. Monthly letter.

Experiment Station:

Bulletin -

- No. 649 Power and machinery effects on management and on costs of potato farming in New Jersey. J. W. Carncross, A. G. Waller, and Emil Rauchenstein. 1938.
- No. 684 A survey of practices and costs of producing grass silage on 50 New Jersey farms. J. W. Carncross, A. G. Waller, and Emil Rauchenstein.
- No. 689 Development of machinery for harvesting and storing grass silage. H. E. Besley, C. Eby, and W. R. Humphries. 1941.

NEW YORK

New York State College of Agriculture, Ithaca

Extension:

Bulletin -

- No. 57 Soldering. 1923.
- No. 108 The farm shop and tool equipment, Rev., 1940.
- No. 225 Repairing harness. 1932.
- No. 323 Farm horseshoeing. 1935.
- No. 367 Water supply for orchards. 1937.
- No. 378 Grinding the farm tools. 1937.
- No. 381 Plow adjustment. 1937.
- No. 385 Repairing the spring-tooth harrow. 1938.
- No. 417 Binder adjustments. 1939.
- No. 457 Silo durability and maintenance. 1941.
- No. 471 Repairing the mowing machine. 1941.
- No. 530 Efficient use of horses on New York farms. 1942.
- No. 534 Farm repair shop. 1942.

War Emergency Bulletin -

- No. 10 Tune-up the Tractor. 1942.
- No. 23 Save labor in growing crops. 1942.
- No. 25 Save labor at haying time. 1942.
- No. 28 Lubrication of farm machinery. 1942.
- No. 31 Cultivator adjustment. 1942.
- No. 33 Milking machines. 1942.
- No. 34 Common binder troubles. 1942.

Mimeographed material:

- No. 683-1 Farm machinery repair program. Progress to August 1942. C. N. Turner.
- Farm machinery repair and adjustment plan of work.
- Material for publicity on combine adjustment.
- Plow pointers for publicity.
- Potato spray ring organization facts.
- Corn binder adjustment.
- Purchase of new machinery.
- Rental rates for farm machinery.
- Farm machinery repair clinic (5 days).
- Details of four-row spray boom.
- Checking beams, frogs, and braces on tractor plows.
- Adjustment of the one-row, horse drawn sulky cultivator.
- Buck rake folder.
- Printed service letter: "Corn binder troubles".
- No. 357 Care and repair of electric irons.
- No. 223 & 359 Sharpening of knives.
- No. 361 Repairing the two-horse mower.
- No. 373 Repairing a one-horse cultivator.
- No. 378 Repairing the disc harrow.
- No. 382 Repairing the two-way sulky plow.

NEW YORK - Continued

Mimeographed material:

- No. 457 Adjusting and repairing the mower.
- No. 476 Repairing the mowing machine.
- No. 505 Repairing the spring tooth harrow.
- No. 553 Combine troubles.
- No. 586 Combine Vs binder thresher troubles.

NORTH CAROLINA

State College of Agriculture and Engineering, University
of North Carolina, State College Station, Raleigh

Extension:

- Bulletin -
- No. 9 Maintenance of the combine. August 1942.
J. D. Bickle

NORTH DAKOTA

North Dakota Agricultural College, State College Station, Fargo

Extension:

- Bulletin -
- No. 305 Cost of power farming - its improvements and work
accomplishments. Thomas E. Long. June 1941.
- A.E.No. 18 Sharpening and care of ordinary farm tools.
January 1937.
- Circular -
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- No. 51 Tractor tires, make them last. 1941.
- No. 52 The use of grain threshers for threshing peanuts. 1942.
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- No. 222 A portable motor for Tennessee farms.
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- No. 253 Electric feed grinding on the farm. J. C. Hundley.
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Agricultural and Mechanical College of Texas, College Station

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Farm Mechanics Magazine, 407 South Dearborn Street, Chicago, Ill.
- How to get the most out of your tractor.
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